Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	4th Main	Cum	1	60.00	5.70	0.15	51.30		
	3rd Main	Cum	1	59.00	6.00	0.15	53.10		
	2nd Main	Cum	1	58.00	5.00	0.15	43.50		
	1st Main	Cum	1	58.00	6.00	0.15	52.20		
	Basic rate							4916.00	
	Area weightage 6%							294.96	
	Total						351.69	5210.96	1832642.52
								Grand Total	8534045.12
								KRIDL Charges 3+1=4%	341361.80
								GST Charges (12% of estimated cost)	1024085.41
								Miscellenious and rounding	507.66
								Total Amount	9900000.00
								RUPEES NINETY NINE LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
Vidhyaranyapuram Sub Division
BBMP

Assistant Executive Engineer
Vidhyaranyapuram Sub Division
BBMP

Executive Engineer
Vidhyaranyapuram Division
BBMP

ADMINISTRATIVE APPROVAL

Accorded For Rs. 99.00 Ninty Nine Lakhs only
Head of A/c. P3727, SC-SP/TSP
Div. Ref. No. 59/19-20 Date. 24-10-19

AE 24/10
EE(BTP) 24/10

Technical Sanction
Accorded For Rs 99.00 Lakhs only
Head of A/C P3729
CER NO : 141 Dt: 26.10.2019

TA — CE (YNK)

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Construction of RCC drain, cement concrete road and missing covering slabs at Elumandamma Layout and sourrounding area in Ward No.10

								Estimation Cost.Rs	9900000.00
Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. Page No. 139, Item No.18.18 and Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	Main Raod Near Patel pillegowda 7th cross	Cum	1	79.00	0.90	0.75	53.33		
	Culvert Deck Slab								
	R chandrappa layout								
	5th Main	Cum	1	7.00	1.40	0.15	1.47		
	4th Main	Cum	1	7.00	1.40	0.15	1.47		
	3rd Main	Cum	1	7.00	1.40	0.15	1.47		
	2nd Main	Cum	1	7.00	1.40	0.15	1.47		
	1st Main	Cum	1	7.00	1.40	0.15	1.47		
	Basic rate							557.00	
	Area weightage 6%							33.42	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						60.68	660.22	40058.85
2	KSRRB M200-15.2. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS Pg No 140 ,Item No 18.27,								
	R chandrappa layout								
	5th Main	Cum	1	7.00	0.45	0.60	1.89		
	4th Main	Cum	1	7.00	0.45	0.60	1.89		
	3rd Main	Cum	1	7.00	0.45	0.60	1.89		
	2nd Main	Cum	1	7.00	0.45	0.60	1.89		
	1st Main	Cum	1	7.00	0.45	0.60	1.89		
	Basic rate							351.00	
	Area weightage 6%							21.06	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						9.45	441.86	4175.58
3	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	New Drain								
	Main Raod Near Patel pillegowda 7th cross	Cum	1	79.00	1.05	1.10	91.25		
	1st Main 1st Cross Right Side	Cum	2	86.00	0.85	1.05	153.51		
	Near Byrappa garden								
		Cum	1	55.00	0.85	1.05	49.09		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Krishanath villah								
	Main Road								
	Culvert	Cum	2	26.00	0.85	1.05	46.41		
		Cum	3	7.00	2.00	1.05	44.10		
	R chandrappa layout								
	5th Main	Cum	1	7.00	1.40	1.05	10.29		
	4th Main	Cum	1	7.00	1.40	1.05	10.29		
	3rd Main	Cum	1	7.00	1.40	1.05	10.29		
	2nd Main	Cum	1	7.00	1.40	1.05	10.29		
	1st Main	Cum	1	7.00	1.40	1.05	10.29		
	Drain Desilt								
	1st Main 1st Cross left Side	Cum	1	86.00	0.90	1.10	85.14		
	Krishanath villah								
	1st cross road	Cum	2	133.00	0.60	0.75	119.70		
	Basic rate							130.00	
	Area weightage 6%							7.80	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**640.64**	**207.60**	**132997.38**
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	New Drain								
	Main Raod Near Patel pillegowda 7th cross	Cum	1	79.00	1.05	0.15	12.44		
	1st Main 1st Cross Right Side	Cum	2	86.00	0.85	0.15	21.93		
	Near Byrappa garden								
		Cum	1	55.00	0.85	0.15	7.01		
	Krishanath villah								
	Main Road	Cum	2	26.00	0.85	0.15	6.63		
	Culvert	Cum	3	7.00	2.00	0.15	6.30		
	R chandrappa layout								
	5th Main	Cum	1	7.00	1.40	0.15	1.47		
	4th Main	Cum	1	7.00	1.40	0.15	1.47		
	3rd Main	Cum	1	7.00	1.40	0.15	1.47		
	2nd Main	Cum	1	7.00	1.40	0.15	1.47		
	1st Main	Cum	1	7.00	1.40	0.15	1.47		
	Basic rate							5194.00	
	Area weightage 6%							311.64	
						Total	**61.67**	**5505.64**	**339505.29**
5	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs. With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	Bottom Raft								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Main Raod Near Patel pillegowda 7th cross	Cum	1	79.00	0.90	0.15	10.67		
	1st Main 1st Cross Right Side	Cum	2	86.00	0.75	0.15	19.35		
	Near Byrappa garden								
		Cum	1	55.00	0.75	0.15	6.19		
	Krishanath villah								
	Main Road	Cum	2	26.00	0.75	0.15	5.85		
	Culvert	Cum	3	7.00	1.80	0.20	7.56		
	R chandrappa layout								
	5th Main	Cum	1	7.00	1.20	0.20	1.68		
	4th Main	Cum	1	7.00	1.20	0.20	1.68		
	3rd Main	Cum	1	7.00	1.20	0.20	1.68		
	2nd Main	Cum	1	7.00	1.20	0.20	1.68		
	1st Main	Cum	1	7.00	1.20	0.20	1.68		
	Walls								
	Main Raod Near Patel pillegowda 7th cross	Cum	2	79.00	0.15	0.80	18.96		
	1st Main 1st Cross Right Side	Cum	4	86.00	0.15	0.75	38.70		
	Near Byrappa garden								
		Cum	2	55.00	0.15	0.75	12.38		
	Krishanath villah								
	Main Road	Cum	4	26.00	0.15	0.75	11.70		
	Culvert	Cum	6	7.00	0.20	0.80	6.72		
	R chandrappa layout								
	5th Main	Cum	2	7.00	0.20	0.75	2.10		
	4th Main	Cum	2	7.00	0.20	0.75	2.10		
	3rd Main	Cum	2	7.00	0.20	0.75	2.10		
	2nd Main	Cum	2	7.00	0.20	0.75	2.10		
	1st Main	Cum	2	7.00	0.20	0.75	2.10		
	Basic rate							6670.00	
	Area weightage 6%							400.20	
	Total						**156.97**	**7070.20**	**1109791.62**
6	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum					123.79		
		kg	Steel assumed 55Kg/Cum of Concrete				6808.31		
		tonne					**6.81**		
	For Culvert	Cum					33.18		
		kg	Steel assumed 100Kg/Cum of Concrete				3318.00		
		tonne					**3.32**		
	Basic rate							68233	
	Area weightage 6%							4093.98	

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Total						10.13	72326.98	732405.60
7	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Drain cover slab								
	1st Main 1st Cross left Side	Sqm	1	86.00	1.20		103.20		
	Main Raod Near Patel pillegowda 7th cross	Sqm	1	79.00	0.90		71.10		
	1st Main 1st Cross Right Side	Sqm	2	86.00	0.75		129.00		
	Near Byrappa garden								
		Sqm	1	55.00	0.75		41.25		
	Krishanath villah								
	Main Road	Sqm	2	26.00	0.75		39.00		
	1st cross road	Sqm	2	133.00	0.90		239.40		
	Missing Cover Slab	Sqm	43	0.90	0.60		23.40		
	Data rate							2337.00	
	Total						646.35	2337.00	1510519.95
8	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Culvert cover Slab								
	Culvert	Sqm	3	7.00	1.80		37.80		
	R chandrappa layout								
	5th Main	Sqm	1	7.00	1.20		8.40		
	4th Main	Sqm	1	7.00	1.20		8.40		
	3rd Main	Sqm	1	7.00	1.20		8.40		
	2nd Main	Sqm	1	7.00	1.20		8.40		
	1st Main	Sqm	1	7.00	1.20		8.40		
	Data rate							5418.00	
	Total						79.80	5418.00	432356.40
9	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	1st Main 1st Cross Right Side	Cum	1	84.00	4.30	0.20	72.24		
	1st Main 1st Cross Left Side	Cum	1	86.00	3.30	0.20	56.76		
	R chandrappa layout								
	5th Main	Cum	1	70.00	5.10	0.20	71.40		
	4th Main	Cum	1	60.00	5.70	0.20	68.40		
	3rd Main	Cum	1	59.00	6.00	0.20	70.80		
	2nd Main	Cum	1	58.00	5.00	0.20	58.00		
	1st Main	Cum	1	58.00	6.00	0.20	69.60		
	Basic rate							899.00	
	Area weightage 6%							53.94	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						467.20	1022.74	477824.13

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
10	KSRRB M300-14. Exeavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	1st Main 1st Cross Right Side	Cum	1	86.00	4.30	0.15	55.47		
	1st Main 1st Cross Left Side	Cum	1	86.00	3.30	0.15	42.57		
	R chandrappa layout								
	5th Main	Cum	1	70.00	5.10	0.15	53.55		
	4th Main	Cum	1	60.00	5.70	0.15	51.30		
	3rd Main	Cum	1	59.00	6.00	0.15	53.10		
	2nd Main	Cum	1	58.00	5.00	0.15	43.50		
	1st Main	Cum	1	58.00	6.00	0.15	52.20		
	Basic rate							41.00	
	Area weightage 6%							2.46	
	5Km lead= (2*1.28*5)							12.80	
	Total						**351.69**	**56.26**	**19786.08**
11	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	1st Main 1st Cross Right Side	Cum	1	86.00	4.30	0.15	55.47		
	1st Main 1st Cross Left Side	Cum	1	86.00	3.30	0.15	42.57		
	R chandrappa layout								
	5th Main	Cum	1	70.00	5.10	0.15	53.55		
	4th Main	Cum	1	60.00	5.70	0.15	51.30		
	3rd Main	Cum	1	59.00	6.00	0.15	53.10		
	2nd Main	Cum	1	58.00	5.00	0.15	43.50		
	1st Main	Cum	1	58.00	6.00	0.15	52.20		
	Basic rate							5102.00	
	Area weightage 6%							306.12	
	Total						**351.69**	**5408.12**	**1901981.72**
12	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	1st Main 1st Cross Right Side	Cum	1	86.00	4.30	0.15	55.47		
	1st Main 1st Cross Left Side	Cum	1	86.00	3.30	0.15	42.57		
	R chandrappa layout								
	5th Main	Cum	1	70.00	5.10	0.15	53.55		